

REVEO-0039USAADN02
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In the Claims

1. (Currently Amended) A logic tree branch for steering electromagnetic energy having a first direction comprising:
 - _____ an active element for directing said electromagnetic energy into one of first and second paths, said first path being substantially parallel to said first direction and said second path being substantially orthogonal to said first direction, and
 - _____ a passive element disposed in said second path for directing said electromagnetic energy into a path parallel to said first path when said electromagnetic energy is directed into said second path.
2. (Original) A logic tree branch according to claim 1 further including a source of said electromagnetic energy having a given wavelength and circular polarization coupled to said active element.
3. (Original) A logic tree branch according to claim 2 wherein said active element includes an element transmissive to said given polarization and wavelength and reflective to said given wavelength and a polarization opposite to said given polarization.
4. (Original) A logic tree branch according to claim 2 wherein said passive element includes an element reflective to said given wavelength and a polarization opposite to said given polarization.
5. (Original) A logic tree branch according to claim 2 wherein said active element includes phase shifter means disposed between said source of electromagnetic energy and said active element.
6. (Original) A logic tree branch according to claim 2 wherein said active element includes an element made of cholesteric liquid crystal material.

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7. (Original) A logic tree branch according to claim 2 wherein said passive element includes an element made of cholesteric liquid crystal material.
8. (Original) A logic tree branch according to claim 2 further including a programmable pulse of source connected to said active element.
9. (Original) A logic tree branch according to claim 2 further including means connected to said source of electromagnetic energy for modulating said source.
10. (Original) A logic tree branch according to claim 5 wherein said phase shifter means includes a phase shifting material responsive to different potential levels for switching said phase shifting material between states which provide electromagnetic energy having said given polarization and said opposite polarization.
11. (Original) A logic tree branch according to claim 5 wherein said phase shifting means further includes electrode means for applying said different potential levels to said phase shifter material.
- 12-71. (Canceled)